| AWARD/CONTRACT | I. THIS CONTR UNDER DPAS | | | ORDER | ······································ | · | RATING | PAGE (| OF PAGE |
|---|---|-------------------|-------------------------|---|--|--|--------------------------------|--|-------------|
| 2. CONTRACT (Proc. Inst. Ident.) NO. HR0011-07-C-0094 | 3. EFFECTIVE I | | /23 | 3/07 | 4. REQUIS | STION/PUR | CHASE REQUEST/I | PROJECT NO | 22). |
| 5. ISSUED BY CODE DARPA CMO (b)(6) ATTN 3701 N. FAIRFAX DR. ARUNGTON VA 22203-1714 | HR0011 | | DCMA 615 ER SUITE | DMINIST ERE SYRACUSE HE BLVD., WEST 300 CUSE NY 13204-24 | | them Item 5) | COL | E S3306A | |
| 7. NAME AND ADDRESS OF CONTRAC | FOR (No. struct o | ly, county, state | and tip co | ode) | | B. DELIVERY | | YTHED - | |
| JOHN R. MARCIANTE P.O. BOX 511 WEBSTER NY 14580-0511 | | | | | | | OR PROMPT PAYMEN | | helow) |
| | | · | | | | O. SUBMIT INV (4 copies maless of TO THE ADDRE | serwise specified) | ITEM Secti | on G |
| | FACILITY CODE | <u> </u> | | | <u> </u> | HOWN IN: | · | | |
| 11. SHIP TO/MARK FOR CODE MR0011 DARPA DR. JOSEPH MANGANO ATTN: MICROSYSTEMS TECHNOLOGY OFFICE 3701 NORTH FARFAX DRIVE ARLINGTON VA 22203-1714 | | | | 12. PAYMENT WILL BE MADE BY DFAS COLUMBUS CENTER NORTH ENTITLEMENT OPERATIONS P.O. BOX 182268 COLUMBUS OH 43218-2266 | | | | | |
| 3. AUTHORITY FOR USING OTHER TH COMPETITION: [] 10 U.S.C. 2304(c)() [] 41 | | PEN | T | CCOUNTING Schedule | AND APPR | OPRIATION | DATA | · · · · · · · · · · · · · · · · · · · | |
| | U.S.C. 253(c)(PLIES' SERVICES | <i>-</i> | 150 | QUANTITY | 15D. UNI | | E. UNIT PRICE | | MOUNT |
| SEE SO | CHEDULE | | | | | | | | |
| | | TADIE |)E ((()) | | . TOTAL AN | OUNTOF | CONTRACT | \$ | 90,500.00 |
|) SEC. DESCRIPTION | | PAGE(S) | | | <u> </u> | DF | SCRIPTION | · | PAGE(\$ |
| PARTI-THESCHI | | | | | · · · • · · | rii - contr | LACTCLAUSES | | 1 |
| A SOLICITATION CONTRACT F B SUPPLIES OR SERVICES AND F | سينم انفطوا وارباح والكابكا بالكالات المستحدد | 2-3 | X | | CACT CLAUS | | | | 16 - 22 |
| C DESCRIPTION/SPECS/WORK | | 4-6 | | | FATTACHM | | IBIIS AND OTHE | RATIACHI | MENTS |
| D PACKAGING AND MARKING | | 7 | | PAI | RTIV - REPR | ESENTATIO | NS AND INSTRUC | TIONS | |
| E INSPECTION AND ACCEPTAN F DELIVERIES OR PERFORMANCE | | 9 - 10 | | | | | AT IONS AND | · · · · · · · · · · · · · · · · · · · | |
| G CONTRACT ADMINISTRATION | | 11 - 12 | - | | STATEMEN CONDS A | | STO OFFERORS | ······································ | |
| H SPECIAL CONTRACT REQUIR | EMENTS | 13 - 15 | | | ATION FAC | · · · · · · · · · · · · · · · · · · · | | · · · · · · · · · · · · · · · · · · · | |
| CO | NTRACTINGOF | | | | | | | | |
| [X] CONTRACTOR'S NEGOTIATED AGREEMENT ungatend return? contract to insuing office.) Contract | Contractor is required to correct agrees to formish and | l deliver at: | 18.[] | AWARD (Comm | ctor is not require | Lto sien this docum | Your offer on S | olicitation Numbe | r |
| ns or perform all the services set forth or otherwise identific ets for the consideration stated herein. The rights and oblig | stions of the parties to this | | including | the additions or cl | onges made by yo | w which additions o | or changes are set forth in fa | 11 | |
| contract shall be subject to and governed by the following documents: (a) this award/contract, b) the solicitation, if any, and (c) such provisions, representations, certifications, and specifications, | | | | above, is hereby accepted as to the items listed above and on any continuation sheets. This award consummates the contract which consists of the following documents: (a) the Government's solicitation and your offer, and | | | | | |
| re attached or incorporated by reference herein. | | | | | o tamber contracts: | | | y over offer, and | |
| | e or print) | | 20A N | JAME AND | CITLE OF CO | NTRACTIN | COPEICED | | |
| John R. Marciante, Sole | Proprietar | | (b)(6 |) | * | | L:(b)(6) | | |
| B. NAME OF CONTRACTOR MARKETOR MARKETOR | | E SIGNED | (D)(C | <u>аптен ст д</u> Э) | TECARALA | SETA L | | ZUC, DATE | agned a |
| (Signature of person authorized to sign) | AA F16 | 15 2ct 7 | B | | | | | 8/23/ | 57 |
| N 7540-01-152-8069 | · | 26- | 107 | | | | STANI | DARD FORM 26 | REV 4-851 |
| EVIOUS EDITION UNUSABLE | | QPQ 1985 | O - 469-7 | 94 | | • · | Prescr | ibed by GSA 18 CFR) 53,214(4) | |

\$0.00

\$90,500.00

Section B - Supplies or Services and Prices

ACRN AA

| ITEM NO. | SUPPLIES/SERVICES | QUANTITY | UNIT | UNIT PRICE | AMOUNT |
|-------------|--|--|---|--|-------------|
| 0001 | | 1 | Each | \$45,250.00 | \$45,250.00 |
| | Assessment Report (Inter- | im) | | | |
| | OptiThink will focus its wrectangular-core large-mo | de-area fibers. Be | end loss occurs | as a result of the | |
| | degradation of the internation begins with the bending of the orthogonality of the mageneral models in order to deliverable/reports will be FOB: Destination | f the fiber, changi- odes. Both of the be applied to the | ng the physical se effects will be rectangular-co | geometry and breaking be validated against re fibers. Data | |
| <u>.</u> | · · · · · · · · · · · · · · · · · · · | · | | NET AMT | \$45,250.00 |
| | | | | | |
| | | | | | |
| | | | | | • |
| ITEM NO. | SUPPLIES/SERVICES | QUANTITY | UNIT | UNIT PRICE | AMOUNT |
| 000101 | T 1' 0 0 1 | | Each | | NSP |
| | Funding for Study FFP | | | | |
| | FOB: Destination | • | | | |
| | AO No. Q407/70 | | | | |
| • | | | | 3. Taraceta - A. B. Areen | |

NET AMT

Page 3 of 22

ITEM SUPPLIES/SERVICES **QUANTITY UNIT UNIT PRICE AMOUNT** NO. 0002 Each \$45,250.00 \$45,250.00 Assessment Report (Final) **FFP** OptiThink will focus its work on the assessment of bend loss and mode mixing in rectangular-core large-mode-area fibers. Bend loss occurs as a result of the degradation of the internal reflection at the core-cladding interface. Mode mixing begins with the bending of the fiber, changing the physical geometry and breaking the orthogonality of the modes. Both of these effects will be validated against general models in order to be applied to the rectangular-core fibers. Data deliverable/reports will be provided in accodrance with Section F. FOB: Destination AO No. Q407/07 **NET AMT** \$45,250.00 **ITEM** SUPPLIES/SERVICES **UNIT UNIT PRICE** NO. 000201 Each **NSP** Funding for Study FOB: Destination AO No. Q407/07 **ACRN AA** \$0.00

Section C - Descriptions and Specifications

CLAUSES INCORPORATED BY FULL TEXT

C-1 Scope of Work

(a) The Contractor shall furnish the necessary personnel, materials, facilities and other services as may be required to perform Contract Line Item Numbers (CLINs) 0001 and 0002 in accordance with the Statement of Work, attached below, and as specified in the Contractor's proposal entitled "Assessment of Rectangular-Core Large-Mode-Area Fibers", dated 22 March 07, incorporated by reference.

Statement of Work:

The work for this contract will entail detailed scientific analysis of rectangular-core optical fibers.

The technical analysis to be performed will consist of intensive numerical modeling, for which new modeling techniques are required. Specifically, the impact of bending on large-mode-area rectangular-core fibers will be examined. This will be accomplished by modeling the effects of both bend-induced modal loss and mode mixing.

Assessing bend loss will require the development of a generalized model, including validation against known cases, and application of this model to rectangular-core fibers. Assessing mode mixing will require the development of a suitable model and application to rectangular-core fibers.

The deliverables in this project are one interim and one final technical report describing the model development and case analyses in the following areas: developing generalized bend loss theory, developing bend loss simulation code, analyzing bend loss in rectangular geometry, developing intermodal coupling methodology, analyzing intermodal coupling in rectangular geometry, and compiling final report.

(b) In the event of an inconsistency between the provisions of this contract and the Contractor's proposal, the inconsistency shall be resolved by giving precedence in the following order: (1) the contract, (2) the attachments to the contract, and then (3) the Contractor's proposal. (end of clause)

C-2 Reports and Other Deliverables

(a) The Contractor shall submit the following reports and other deliverables in accordance with the delivery schedule set forth in Section F. Reports and other deliverables shall be submitted in writing, as defined in FAR 2.101, or as specified below:

(1) INTERIM STATUS REPORT

This brief narrative, not to exceed five pages in length, shall contain the following:

- (i) The date work actually started.
- (ii) Description of progress during the reporting period, supported by reasons for any change in approach reported previously
- (iii) Planned activities and milestones for the next reporting period.
- (iv) Description of any major items of experimental or special equipment purchased or constructed during the reporting period.

(v) Notification of any changes in key personnel associated with the contract during the reporting period.

- (vi) Summary of substantive information derived from noteworthy trips, meetings, and special conferences held in connection with the contract during the reporting period.
- (vii) Summary of all problems or areas of concern.
- (viii) Related accomplishments since last report.
- (ix) Fiscal status, to include reporting of summary level financial data.

(2) FINAL REPORT

This report shall document the results of the complete effort and should be delivered at the completion of the contract. If the Government chooses to exercise the options under this contract, the due date for the final report is extended accordingly. Title pages shall include a disclaimer worded substantially as follows:

"The views and conclusions contained in this document are those of the authors and should not be interpreted as representing the official policies, either expressly or implied, of the Defense Advanced Research Projects Agency or the U.S. Government."

The Final Technical Report summary shall include:

Task Objectives
Technical Problems
General Methodology (i.e., literature review, laboratory experiments, surveys, etc.)
Technical Results
Important Findings and Conclusions
Significant Hardware Development
Special Comments
Implications for Further Research
Standard Form 298, September 1988

- (b) Reports delivered by the Contractor in the performance of the contract shall be considered "Technical Data" as defined in Section I contract clauses entitled "Rights in Technical Data Noncommercial Items" and "Rights in Noncommercial Computer Software Documentation."
- (c) Bulky Reports shall be mailed by other than first-class mail unless the urgency of submission requires use of first-class mail. In this situation, one copy shall be mailed first-class and the remaining copies forwarded by less than first-class.
- (d) All papers and articles published as a result of DARPA sponsored research shall include a statement reflecting the sponsorship. In addition, a bibliography of the titles and authors of all such papers are to be included in the Final Technical Report
 - (1) The cover or title page of each of the above reports or publications prepared, will have the following citation:

Sponsored by
Defense Advanced Research Projects Agency
Microsystems Technology Office (MTO)
Program Assessment of Rectangular-Core Large-Mode-Area Fibers
ARPA Order No. Q470/07
Issued by DARPA/CMO under Contract No. HR0011-07-C-0094

(2) The title page shall include a disclaimer worded substantially as follows:

"The views and conclusions contained in this document are those of the authors and should not be interpreted as representing the official policies, either expressly or implied, of the Defense Advanced Research Projects Agency or the U.S. Government."

(3) All technical reports must (i) be prepared in accordance with American National Standards Institute (ANSI) Standard Z39.18; (ii) include a Standard Form 298, August 1998; and (iii) be marked with an appropriate Distribution Statement.

(end of clause)

Section D - Packaging and Marking

CLAUSES INCORPORATED BY FULL TEXT

D-1 Packaging and Marking

(a) All items shall be preserved, packaged, packed and marked in accordance with best commercial practices to meet the packing requirements of the carrier, and to ensure safe delivery at destination.

(end of clause)

Section E - Inspection and Acceptance

INSPECTION AND ACCEPTANCE TERMS

Supplies/services will be inspected/accepted at destination by the receiving activity (see Section G-2, Electronic Submission of Payment Requests).

CLAUSES INCORPORATED BY REFERENCE

52.246-7 252.246-7000 Inspection Of Research And Development Fixed Price

Material Inspection And Receiving Report

AUG 1996

MAR 2003

Section F - Deliveries or Performance

DELIVERY INFORMATION

CLAUSES INCORPORATED BY REFERENCE

52.247-34

F.O.B. Destination

NOV 1991

CLAUSES INCORPORATED BY FULL TEXT

F-1 Term of Contract

(a) The term of the contract commences on the effective date of the contract and continues through 3 months thereafter.

F-2 Reports and Other Deliverables

(a) Delivery of all reports and other deliverables shall be made to the addressee specified in F-3 entitled "Report Distribution" in accordance with the following:

| Item No. | Description | Due Date (on or before) |
|--------------|-----------------------------|------------------------------------|
| 0001 0002 | Interim Report Final Report | 6 October 2007 21 November 2007 |

(end of clause)

F-3 Report Distribution

- (a) Defense Technical Information Center
 - (1) Email: TR@dtic.mil (one electronic copy of the Final Technical Report, if unclassified)

OR

- (2) Attn: DTIC-BCS 8725 John J. Kingman Road, Suite 0944 Fort Belvoir, VA 22060-0944 (two hard copies of the Final Technical Report if unclassified)
- (b) DARPA/Library
 3701 North Fairfax Drive
 Arlington, VA 22203-1714
 Email: library@darpa.mil
 (one copy of the Final Technical Report)

(c) DARPA/MTO

Attn: Joseph Mangano 3701 North Fairfax Drive Arlington, VA 22203-1714

Email: (joseph.mangano@darpa.mil)

(one copy each report)

(d) DARPA/MTO

Attn: ADPM 3701 North Fairfax Drive Arlington, VA 22203-1714 (one copy each report)

(e) DARPA/CMO

Attn: Michael Blackstone 3701 North Fairfax Drive Arlington, VA 22203-1714

Email: Michael.Blackstone@darpa.mil

(one copy each report)

Note 1: Hard copy distribution to those persons in (c) - (e) shall be for the Final Report only. (end of clause)

F-4 Notice Regarding Late Delivery

(a) In the event the Contractor anticipates difficulty in complying with the contract delivery schedule, the Contractor shall immediately notify the Contracting Officer in writing, giving pertinent details, including the date by which it expects to make delivery; PROVIDED, however, that this date shall be informational only in character and the receipt thereof shall not be construed as a waiver by the Government of any contract delivery schedule, or any rights or remedies provided by law or under this contract.

(end of clause)

Section G - Contract Administration Data

ACCOUNTING AND APPROPRIATION DATA

AA: 9770400 1320 Q407 P7720 2525 DPAC 7 5262 S12136 62716E

AMOUNT: \$90,500.00

CLAUSES INCORPORATED BY FULL TEXT

252.204-7006 BILLING INSTRUCTIONS (OCT 2005)

When submitting a request for payment, the Contractor shall--

- (a) Identify the contract line item(s) on the payment request that reasonably reflect contract work performance; and
- (b) Separately identify a payment amount for each contract line item included in the payment request.

(End of clause)

G-1 Procuring Office Representative

(a) The Procuring Office Representative is Michael Blackstone, DARPA/CMO, 3701 North Fairfax Drive, Arlington, VA 22203-1714, telephone: 571-218-4578, e-mail: michael.blackstone@darpa.mil. (end of clause)

G-2 Electronic Submission of Payment Requests

- (a) An "Invoice as 2 in 1" document identified by contract number shall be submitted for payment directly via the Internet to Wide Area Workflow (WAWF) at https://wawf.eb.mil. Supporting details for the invoice shall be attached to the WAWF "Invoice as 2 in 1" document.
 - (1) For the Issue By DoDAAC and Admin DoDAAC fields, enter HR0011.
 - (2) For the Service Acceptor fields, enter HR0011 and Extension 01.
 - (3) Leave the Inspect By DoDAAC, Ship From Code DoDAAC and LPO DoDAAC fields blank.

Note: The Contractor shall ensure that the PCO receives an e-mail notification from the WAWF system upon invoice submission.

(end of clause)

G-3 Delegation of Authority for Contract Administration

(a) DCMA Syracuse (DoDAAC S3306A), is hereby designated as the Contracting Officer's authorized representative for administering this contract in accordance with current directives. (end of clause)

- G-4 Payment Instructions for Multiple Accounting Classification Citations
- (a) Payments under contract line items funded by multiple accounting classification citations shall be made from the earliest available fiscal year funding sources. The earliest assigned ACRN must be fully disbursed before making disbursements from a succeeding ACRN.

 (end of clause)

Section H - Special Contract Requirements

CLAUSES INCORPORATED BY FULL TEXT

H-1 Contracting Officer

(a) Notwithstanding any other provision of this contract, the Contracting Officer is the only individual authorized to redirect the effort or in any way amend or modify any of the terms of this contract. If, as a result of technical discussions, it is desirable to alter contract obligations or statement of work, a modification must be issued in writing and signed by the Contracting Officer.

(end of clause)

H-2 Type of Contract

(a) This is a firm fixed price contract. (end of clause)

H-3 Public Release or Dissemination of Information

- (a) There shall be no dissemination or publication, except within and between the Contractor and any subcontractors, of information developed under this contract or contained in the reports to be furnished pursuant to this contract without prior written approval of the DARPA Technical Information Officer (DARPA/TIO). All technical reports will be given proper review by appropriate authority to determine which Distribution Statement is to be applied prior to the initial distribution of these reports by the Contractor. Papers resulting from unclassified contracted fundamental research are exempt from prepublication controls and this review requirement, pursuant to DoD Instruction 5230.27 dated October 6, 1987.
- (b) When submitting material for written approval for open publication as described in subparagraph (a) above, the Contractor must submit a request for public release request to the DARPA TIO and include the following information: 1) Document Information: document title, document author, short plain-language description of technology discussed in the material (approx 30 words), number of pages (or minutes of video) and document type (briefing, report, abstract, article, or paper); 2) Event Information: event type (conference, principle investigator meeting, article or paper), event date, desired date for DARPA's approval; 3) DARPA Sponsor: DARPA Program Manager, DARPA office, and contract number; and 4) Contractor's Information: POC name, e-mail and phone. Allow four weeks for processing; due dates under four weeks require a justification. Unusual electronic file formats may require additional processing time. Requests can be sent either via e-mail to tio@darpa.mil or via 3701 North Fairfax Drive, Arlington VA 22203-1714, telephone (571) 218-4235. Refer to www.darpa.mil/tio for information about DARPA's public release process.

H-4 Key Personnel

(a) The Contractor shall notify the Contracting Officer prior to making any change in key personnel. Key personnel are defined as follows:

Dr. John Marciante, PI

(b) The Contractor must demonstrate that the qualifications of the prospective personnel are equal to or better than the qualifications of the personnel being replaced. Notwithstanding any of the foregoing provisions, key personnel shall be furnished unless the Contractor has demonstrated to the satisfaction of the COR that the

qualifications of the proposed substitute personnel are equal to or better than the qualifications of the personnel being replaced.

(end of clause)

H-5 Restrictions on Printing

(a) Unless otherwise authorized in writing by the Contracting Officer, reports, data, or other written material produced using funds provided by this contract and submitted hereunder shall be reproduced only by duplicating processes and shall not exceed 5,000 single page reports or a total of 25,000 pages of a multiple-page report. These restrictions do not preclude the writing, editing, preparation of manuscript or reproducible copy of related illustrative materials if required as part of this contract, or incidental printing such as forms or materials necessary to be used by the Contractor to respond to the terms of the contract. (end of clause)

H-6 Contractor Representations and Certifications

(a) The Contractor's Representations and Certifications dated 14 July 2007 are incorporated herein by reference.

(end of clause)

H-7 Insurance Schedule

(a) The Contractor shall maintain the types of insurance listed in FAR 28.307-2 (a), (b) and (c), with the minimum amounts of liability indicated therein. The types of insurance coverage listed in paragraphs (d) and (e) shall also be maintained when applicable.

(end of clause)

H-8 Travel

- (a) Reimbursement for travel-related expenses shall be in accordance with the Contractor's approved travel policy. The Federal Travel Regulations, Joint Travel Regulations (JTR), and Standardized Regulations as stated in FAR 31.205-46 will be used as a guide in determining reasonableness of per diem costs. Costs for travel shall be allowable subject to the provisions of FAR 31.205-46.
- (b) In connection with direct charge to the contract of travel-related expenses, the Contractor shall hold travel to the minimum required to meet the objectives of the contract, and substantial deviations from the amount of travel agreed to during contract negotiation shall not be made without the authorization of the Contracting Officer.

When applicable, the Contractor shall notify the COR of proposed travel of an employee beyond that agreed to during negotiations.

- (c) Approval of the Contracting Officer shall be obtained in advance for attendance by personnel at training courses, seminars, and other meetings not directly related to contract performance if the costs for the courses, seminars, and other meetings are charged to the contract.
- (d) All foreign travel shall be authorized and approved in advance, in writing, by the Contracting Officer. Request for such travel must be submitted to the Contracting Officer at least forty-five (45) days in advance of traveler's anticipated departure date, and shall include traveler's itinerary of United States Flag Air Carriers. (end of clause)

H-9 Metric System

- (a) The Defense Advanced Research Projects Agency (DARPA) will consider the use of the metric system in all of its activities consistent with operational, economical, technical and safety requirements.
- (b) The metric system will be considered for use in all new designs. When it is deemed not to be in the best interest of the DoD to provide metric design, justification shall be provided.
- (c) Physical and operational interfaces between metric items and U.S. customary items will be designed to assure that interchangeability and interoperability will not be affected.
- (d) Existing designs dimensioned in U.S. customary units will be converted to metric units only if determined to be necessary or advantageous. Unnecessary retrofit of existing systems with new metric components will be avoided where both the new metric and existing units are interchangeable and interoperable. Normally, the system of measurement in which an item is originally designed will be retained for the life of the item.
- (e) During the metric transition phase hybrid metric and U.S. customary designs will be necessary and acceptable. Material components, parts, subassemblies, and semi-fabricated material, which are of adequate or when it is otherwise specifically determined to be in the best interest of the Department of Defense. Bulk materials will be specified and accepted in metric units when it is expedient or economical to do so.
- (f) Technical reports, studies, and position papers, (except those pertaining to items dimensioned in U.S. customary units) will include metric units of measurement in addition to or in lieu of U.S. customary units. With respect to existing contracts, this requirement applies only if such documentation can be obtained without an increase in contract costs.
- (g) Use of the dual dimensions (i.e., both metric and U.S. customary dimensions) on drawings will be avoided unless it is determined in specific instances that such usage will be beneficial. However, the use of tables on the document to translate dimensions from one system of measurement to the other is acceptable. (end of clause)

H-10 Proprietary Technical Data and Computer Software

(a) Any deliverable technical data or computer software developed or generated at private expense and considered to be proprietary by the Contractor or subcontractors shall be delivered in accordance with DFARS 252.227-7013 and 252.227-7014. A list of such data and/or software is incorporated into the contract as Attachment No. N/A.

(end of clause)

Section I - Contract Clauses

CLAUSES INCORPORATED BY REFERENCE

| 52.202-1 | Definitions | JUL 2004 |
|----------------------|---|-----------------|
| 52.203-3 | Gratuities | APR 1984 |
| 52.203-5 | Covenant Against Contingent Fees | APR 1984 |
| 52.203-6 | Restrictions On Subcontractor Sales To The Government | SEP 2006 |
| 52.203-7 | Anti-Kickback Procedures | JUL 1995 |
| 52.203-8 | Cancellation, Rescission, and Recovery of Funds for Illegal | |
| | Improper Activity | |
| 52.203-10 | Price Or Fee Adjustment For Illegal Or Improper Activity | JAN 1997 |
| 52.203-12 | Limitation On Payments To Influence Certain Federal | SEP 2005 |
| | Transactions | |
| 52.204-4 | Printed or Copied Double-Sided on Recycled Paper | AUG 2000 |
| 52.209-6 | Protecting the Government's Interest When Subcontracting | SEP 2006 |
| • | With Contractors Debarred, Suspended, or Proposed for | |
| • | Debarment | |
| 52.2 <u>15-15</u> | Pension Adjustments and Asset Reversions | OCT 2004 |
| 52.215-19 | Notification of Ownership Changes | OCT 1997 |
| 52.219-7 | Notice of Partial Small Business Set-Aside | JUN 2003 |
| 52.219-28 | Post-Award Small Business Program Rerepresentation | JUN 2007 |
| 52.222-3 | Convict Labor | JUN 2003 |
| 52.222-21 | Prohibition Of Segregated Facilities | FEB 1999 |
| 52.222-26 | Equal Opportunity | MAR 2007 |
| 52.222-35 | Equal Opportunity For Special Disabled Veterans, Veterans | ofSEP 2006 |
| | the Vietnam Era, and Other Eligible Veterans | |
| 52.222-36 | Affirmative Action For Workers With Disabilities | JUN 1998 |
| 52.222-37 | Employment Reports On Special Disabled Veterans, Veteran | ıs SEP 2006 |
| | Of The Vietnam Era, and Other Eligible Veterans | |
| 52.222-39 | Notification of Employee Rights Concerning Payment of | DEC 2004 |
| | Union Dues or Fees | |
| 52.223-14 | Toxic Chemical Release Reporting | AUG 2003 |
| 52.226-1 | Utilization Of Indian Organizations And Indian-Owned | JUN 2000 |
| 50 00 T · 1 | Economic Enterprises | |
| 52.227-1 | Authorization and Consent | JUL 1995 |
| 52.227-2 | Notice And Assistance Regarding Patent And Copyright | AUG 1996 |
| £0.000.0 | Infringement | • |
| 52.232-2 | Payments Under Fixed-Price Research And Development | APR 1984 |
| 50.000.0 | Contracts | |
| 52.232-9 | Limitation On Withholding Of Payments | APR 1984 |
| 52.232-23 Alt I | Assignment of Claims (Jan 1986) - Alternate I | APR 1984 |
| 52.232-25 | Prompt Payment | OCT 2003 |
| 52.232-33 | Payment by Electronic Funds TransferCentral Contractor | OCT 2003 |
| 52.233-1 | Registration | |
| 52.233-1 52.233-3 | Disputes Drotest After Agent 4 | JUL 2002 |
| 52.242-13 | Protest After Award | AUG 1996 |
| 52.244-5 | Bankruptcy Composition In Statement | JUL 1995 |
| 52.244-5 52.244-6 | Competition In Subcontracting | DEC 1996 |
| 52.244-0 52.249-1 | Subcontracts for Commercial Items | MAR 2007 |
| J ん. ムサフー1 | Termination For Convenience Of The Government (Fixed | APR 1984 |
| 52.253-1 | Price) (Short Form) Computer Generated Forms | |
| J2.2JJ-1 | Computer Generated Forms | JAN 1991 |
| | | |

| 252.201-7000 | Contracting Officer's Representative | DEC 1991 |
|----------------------|--|-----------------------------|
| 252.203-7001 | Prohibition On Persons Convicted of Fraud or Other Defense- | DEC 2004 |
| | Contract-Related Felonies | DEC 2004 |
| 252.204-7002 | Payment For Subline Items Not Separately Priced | DEC 1991 |
| 252.204-7003 | Control Of Government Personnel Work Product | APR 1992 |
| 252.204-7004 Alt A | Central Contractor Registration (52.204-7) Alternate A | NOV 2003 |
| 252.209-7004 | Subcontracting With Firms That Are Owned or Controlled By | - · · · · · · · - · - · · · |
| | The Government of a Terrorist Country | DEC 2000 |
| 252.222-7006 | Combating Trafficking in Persons | OCT 2006 |
| 252.227-7013 | Rights in Technical DataNoncommercial Items | OCT 2006 |
| 252.227-7014 | Rights in Noncommercial Computer Software and | NOV 1995 |
| | Noncommercial Computer Software Documentation | JUN 1995 |
| 252.227-7015 | Technical DataCommercial Items | NION / 1006 |
| 252.227-7016 | | NOV 1995 |
| 252.227-7019 | Rights in Bid or Proposal Information Validation of Asserted Beatrictics - Constant Constant | JUN 1995 |
| 252.227-7019 | • | JUN 1995 |
| | | APR 1988 |
| 252.227-7037 | | SEP 1999 |
| 252.232-7003 | | MAR 2007 |
| | | DEC 2006 |
| | | MAY 1995 |
| | ™ | NOV 2004 |
| | | DEC 1991 |
| | Requests for Equitable Adjustment | MAR 1998 |
| | Transportation of Supplies by Sea | MAY 2002 |
| 252.247-7023 Alt III | Transportation of Supplies by Sea (May 2002) Alternate III | MAY 2002 |
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CLAUSES INCORPORATED BY FULL TEXT

52.227-11 PATENT RIGHTS--RETENTION BY THE CONTRACTOR (SHORT FORM) (JUN 1997)

(a) Definitions.

- (1) "Invention" means any invention or discovery which is or may be patentable or otherwise protectable under title 35 of the United States Code, or any novel variety of plant which is or may be protected under the Plant Variety Protection Act (7 U.S.C. 2321, et seq.).
- (2) "Made" when used in relation to any invention means the conception or first actual reduction to practice of such invention.
- (3) "Nonprofit organization" means a university or other institution of higher education or an organization of the type described in section 501(c)(3) of the Internal Revenue Code of 1954 (26 U.S.C. 501(c)) and exempt from taxation under section 501(a) of the Internal Revenue Code (26 U.S.C. 501(a)) or any nonprofit scientific or educational organization qualified under a state nonprofit organization statute.
- (4) "Practical application" means to manufacture, in the case of a composition of product; to practice, in the case of a process or method, or to operate, in the case of a machine or system; and, in each case, under such conditions as to establish that the invention is being utilized and that is benefits are, to the extent permitted by law or Government regulations, available to the public on reasonable terms.
- (5) "Small business firm" means a small business concern as defined at section 2 of Pub. L. 85-536 (15 U.S.C. 632) and implementing regulations of the Administrator of the Small Business Administration. For the purpose of this

clause, the size standards for small business concerns involved in Government procurement and subcontracting at 13 CFR 121.3-12, respectively, will be used.

- (6) "Subject invention" means any invention of the contractor conceived or first actually reduced to practice in the performance of work under this contract, provided that in the case of a variety of plant, the date of determination (as defined in section 41(d) of the Plant Variety Protection Act, 7 U.S.C. 2401(d)) must also occur during the period of contract performance.
- (b) Allocation of principal rights. The Contractor may retain the entire right, title, and interest throughout the world to each subject invention subject to the provisions of this clause and 35 U.S.C. 203. With respect to any subject invention in which the Contractor retains title, the Federal Government shall have a nonexclusive, nontransferable, irrevocable, paid-up license to practice or have practiced for or on behalf of the United States the subject invention throughout the world.
- (c) Invention disclosure, election of title, and filing of patent application by Contractor. (1) The Contractor will disclose each subject invention to the Federal agency within 2 months after the inventor discloses it in writing to Contractor personnel responsible for patent matters. The disclosure to the agency shall be in the form of a written report and shall identify the contract under which the invention was made and the inventor(s). It shall be sufficiently complete in technical detail to convey a clear understanding to the extent known at the time of the disclosure, of the nature, purpose, operation, and the physical, chemical, biological or electrical characteristics of the invention. The disclosure shall also identify any publication, on sale or public use of the invention and whether a manuscript describing the invention has been submitted for publication and, if so, whether it has been accepted for publication at the time of disclosure. In addition, after disclosure to the agency, the Contractor will promptly notify the agency of the acceptance of any manuscript describing the invention for publication or of any on sale or public use planned by the Contractor.
- (2) The Contractor will elect in writing whether or not to retain title to any such invention by notifying the Federal agency within 2 years of disclosure to the Federal agency. However, in any case where publication, on sale or public use has initiated the 1-year statutory period wherein valid patent protection can still be obtained in the United States, the period for election of title may be shortened by the agency to a date that is no more than 60 days prior to the end of the statutory period.
- (3) The Contractor will file its initial patent application on a subject invention to which it elects to retain title within 1 year after election of title or, if earlier, prior to the end of any statutory period wherein valid patent protection can be obtained in the United States after a publication, on sale, or public use. The Contractor will file patent applications in additional countries or international patent offices within either 10 months of the corresponding initial patent application or 6 months from the date permission is granted by the Commissioner of Patents and Trademarks to file foreign patent applications where such filing has been prohibited by a Secrecy Order.
- (4) Requests for extension of the time for disclosure election, and filing under subparagraphs (c)(1), (2), and (3) of this clause may, at the discretion of the agency, be granted.
- (d) Conditions when the Government may obtain title. The Contractor will convey to the Federal agency, upon written request, title to any subject invention--
- (1) If the Contractor fails to disclose or elect title to the subject invention within the times specified in paragraph (c) of this clause, or elects not to retain title; provided, that the agency may only request title within 60 days after learning of the failure of the Contractor to disclose or elect within the specified times.
- (2) In those countries in which the Contractor fails to file patent applications within the times specified in paragraph (c) of this clause; provided, however, that if the Contractor has filed a patent application in a country after the times specified in paragraph (c) of this clause, but prior to its receipt of the written request of the Federal agency, the Contractor shall continue to retain title in that country.

- (3) In any country in which the Contractor decides not to continue the prosecution of any application for, to pay the maintenance fees on, or defend in reexamination or opposition proceeding on, a patent on a subject invention.
- (e) Minimum rights to Contractor and protection of the Contractor right to file. (1) The Contractor will retain a nonexclusive royalty-free license throughout the world in each subject invention to which the Government obtains title, except if the Contractor fails to disclose the invention within the times specified in paragraph (c) of this clause. The Contractor's license extends to its domestic subsidiary and affiliates, if any, within the corporate structure of which the Contractor is a party and includes the right to grant sublicenses of the same scope to the extent the Contractor was legally obligated to do so at the time the contract was awarded. The license is transferable only with the approval of the Federal agency, except when transferred to the successor of that part of the Contractor's business to which the invention pertains.
- (2) The Contractor's domestic license may be revoked or modified by the funding Federal agency to the extent necessary to achieve expeditious practical application of subject invention pursuant to an application for an exclusive license submitted in accordance with applicable provisions at 37 CFR Part 404 and agency licensing regulations (if any). This license will not be revoked in that field of use or the geographical areas in which the Contractor has achieved practical application and continues to make the benefits of the invention reasonably accessible to the public. The license in any foreign country may be revoked or modified at the discretion of the funding Federal agency to the extent the Contractor, its licensees, or the domestic subsidiaries or affiliates have failed to achieve practical application in that foreign country.
- (3) Before revocation or modification of the license, the funding Federal agency will furnish the Contractor a written notice of its intention to revoke or modify the license, and the Contractor will be allowed 30 days (or such other time as may be authorized by the funding Federal agency for good cause shown by the Contractor) after the notice to show cause why the license should not be revoked or modified. The Contractor has the right to appeal, in accordance with applicable regulations in 37 CFR Part 404 and agency regulations, if any, concerning the licensing of Government-owned inventions, any decision concerning the revocation or modification of the license.
- (f) Contractor action to protect the Government's interest. (1) The Contractor agrees to execute or to have executed and promptly deliver to the Federal agency all instruments necessary to (i) establish or confirm the rights the Government has throughout the world in those subject inventions to which the Contractor elects to retain title, and (ii) convey title to the Federal agency when requested under paragraph (d) of this clause and to enable the Government to obtain patent protection throughout the world in that subject invention.
- (2) The Contractor agrees to require, by written agreement, its employees, other than clerical and nontechnical employees, to disclose promptly in writing to personnel identified as responsible for the administration of patent matters and in a format suggested by the Contractor each subject invention made under contract in order that the Contractor can comply with the disclosure provisions of paragraph (c) of this clause, and to execute all papers necessary to file patent applications on subject inventions and to establish the Government's rights in the subject inventions. This disclosure format should require, as a minimum, the information required by subparagraph (c)(1) of this clause. The Contractor shall instruct such employees, through employee agreements or other suitable educational programs, on the importance of reporting inventions in sufficient time to permit the filing of patent applications prior to U.S. or foreign statutory bars.
- (3) The Contractor will notify the Federal agency of any decisions not to continue the prosecution of a patent application, pay maintenance fees, or defend in a reexamination or opposition proceeding on a patent, in any country, not less than 30 days before the expiration of the response period required by the relevant patent office.
- (4) The Contractor agrees to include, within the specification of any United States patent application and any patent issuing thereon covering a subject invention, the following statement, "This invention was made with Government support under (identify the contract) awarded by (identify the Federal agency). The Government has certain rights in the invention."
- (g) Subcontracts. (1) The Contractor will include this clause, suitably modified to identify the parties, in al

subcontracts, regardless of tier, for experimental, developmental, or research work to be performed by a small business firm or domestic nonprofit organization. The subcontractor will retain all rights provided for the Contractor in this clause, and the Contractor will not, as part of the consideration for awarding the subcontract, obtain rights in the subcontractor's subject inventions.

- (2) The Contractor will include in all other subcontracts, regardless of tier, for experimental, developmental, or research work the patent rights clause required by Subpart 27.3.
- (3) In the case of subcontracts, at any tier, the agency, subcontractor, and the Contractor agree that the mutual obligations of the parties created by this clause constitute a contract between the subcontractor and the Federal agency with respect to the matters covered by the clause; provided, however, that nothing in this paragraph is intended to confer any jurisdiction under the Contract Disputes Act in connection with proceedings under paragraph (j) of this clause.
- (h) Reporting on utilization of subject inventions. The Contractor agrees to submit, on request, periodic reports no more frequently than annually on the utilization of a subject invention or on efforts at obtaining such utilization that are being made by the Contractor or its licensees or assignees. Such reports shall include information regarding the status of development, date of first commercial sale or use, gross royalties received by the Contractor, and such other data and information as the agency may reasonably specify. The Contractor also agrees to provide additional reports as may be requested by the agency in connection with any march-in proceeding undertaken by the agency in accordance with paragraph (j) of this clause. As required by 35 U.S.C. 202(c)(5), the agency agrees it will not disclose such information to persons outside the Government without permission of the Contractor.
- (i) Preference for United States industry. Notwithstanding any other provision of this clause, the Contractor agrees that neither it nor any assignee will grant to any person the exclusive right to use or sell any subject invention in the United States unless such person agrees that any product embodying the subject invention or produced through the use of the subject invention will be manufactured substantially in the United States. However, in individual cases, the requirement for such an agreement may be waived by the Federal agency upon a showing by the Contractor or its assignee that reasonable but unsuccessful efforts have been made to grant licenses on similar terms to potential licensees that would be likely to manufacture substantially in the United States or that under the circumstances domestic manufacture is not commercially feasible.
- (j) March-in rights. The Contractor agrees that, with respect to any subject invention in which it has acquired title, the Federal agency has the right in accordance with the procedures in 37 CFR 401.6 and any supplemental regulations of the agency to require the Contractor, an assignee or exclusive licensee of a subject invention to grant a nonexclusive, partially exclusive, or exclusive license in any field of use to a responsible applicant or applicants, upon terms that are reasonable under the circumstances, and if the Contractor, assignee, or exclusive licensee refuses such a request the Federal agency has the right to grant such a license itself if the Federal agency determines that--
- (1) Such action is necessary because the Contractor or assignee has not taken, or is not expected to take within a reasonable time, effective steps to achieve practical application of the subject invention in such field of use;
- (2) Such action is necessary to alleviate health or safety needs which are not reasonably satisfied by the Contractor, assignee, or their licensees:
- (3) Such action is necessary to meet requirements for public use specified by Federal regulations and such requirements are not reasonably satisfied by the Contractor, assignee, or licensees; or
- (4) Such action is necessary because the agreement required by paragraph (i) of this clause has not been obtained or waived or because a licensee of the exclusive right to use or sell any subject invention in the United States is in breach of such agreement.
- (k) Special provisions for contracts with nonprofit organizations. If the Contractor is a nonprofit organization, it agrees that--

- (1) Rights to a subject invention in the United States may not be assigned without the approval of the Federal agency, except where such assignment is made to an organization which has as one of its primary functions the management of inventions; provided, that such assignee will be subject to the same provisions as the Contractor;
- (2) The Contractor will share royalties collected on a subject invention with the inventor, including Federal employee co-inventors (when the agency deems it appropriate) when the subject invention is assigned in accordance with 35 U.S.C. 202(e) and 37 CFR 401.10;
- (3) The balance of any royalties or income earned by the Contractor with respect to subject inventions, after payment of expenses (including payments to inventors) incidental to the administration of subject inventions will be utilized for the support of scientific research or education; and
- (4) It will make efforts that are reasonable under the circumstances to attract licensees of subject inventions that are small business firms, and that it will give a preference to a small business firm when licensing a subject invention if the Contractor determines that the small business firm has a plan or proposal for marketing the invention which, if executed, is equally as likely to bring the invention to practical application as any plans or proposals from applicants that are not small business firms; provided, that the Contractor is also satisfied that the small business firm has the capability and resources to carry out its plan or proposal. The decision whether to give a preference in any specific case will be at the discretion of the contractor. However, the Contractor agrees that the Secretary of Commerce may review the Contractor's licensing program and decisions regarding small business applicants, and the Contractor will negotiate changes to its licensing policies, procedures, or practices with the Secretary of Commerce when the Secretary's review discloses that the Contractor could take reasonable steps to more effectively implement the requirements of this subparagraph (k)(4).
- (l) Communications.

All written notifications/reports required by this clause shall be submitted of the Administrative Contracting Officer (ACO). All required reporting shall be accomplished using the i-Edison.gov reporting website (http://s-edison.info.nih.gov/iEdison).

Final patent report will be submitted in hard copy to the Administrative Contracts Officer (ACO) and Procurement Contract Officer (PCO) designated herein until such time that iEdison allows for electronic submission.

(End of clause)

52.233-4 APPLICABLE LAW FOR BREACH OF CONTRACT CLAIM (OCT 2004)

United States law will apply to resolve any claim of breach of this contract.

(End of clause)

52.252-2 CLAUSES INCORPORATED BY REFERENCE (FEB 1998)

This contract incorporates one or more clauses by reference, with the same force and effect as if they were given in full text. Upon request, the Contracting Officer will make their full text available. Also, the full text of a clause may be accessed electronically at this/these address(es):

http://farsite.hil.af.mil

(End of clause)

52.252-6 AUTHORIZED DEVIATIONS IN CLAUSES (APR 1984)

- (a) The use in this solicitation or contract of any Federal Acquisition Regulation (48 CFR Chapter 1) clause with an authorized deviation is indicated by the addition of "(DEVIATION)" after the date of the clause.
- (b) The use in this solicitation or contract of any Defense Federal Acquisition Regulation Supplement (48 CFR Chapter 2) clause with an authorized deviation is indicated by the addition of "(DEVIATION)" after the name of the regulation.

(End of clause)

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SECTION SF 30 BLOCK 14 CONTINUATION PAGE

SUMMARY OF CHANGES

SECTION F - DELIVERIES OR PERFORMANCE The following have been modified in bold;

- 1. F-1 Term of Contract
 - (a) The term of the contract commences on the effective date of the contract and continues through 4 January 2008.
- 2. F-2 Reports and Other Deliverables
 - (a) Delivery of all reports and other deliverables shall be made to the addressee specified in F-3 entitled "Report Distribution" in accordance with the following:

| Item No. | Description | Due Date (on or before) |
|--------------|-----------------------------|----------------------------------|
| 0001 0002 | Interim Report Final Report | 6 October 2007 4 January 2008 |

(end of clause)

3. Except as modified above, the terms and conditions of Contract No. HR0011-07-C-0094 shall remain unchanged and in full force and effect.

(End of Summary of Changes)